

3000/FIREBEAM70 Optical Beam Smoke Detector

- Infrared Transmitter and Receiver
- Technician Friendly
- Simple Menu System
- Low Power Usage
- Automatic Beam Alignment
- Cost Effective



The Protec 3000/FIREBEAM/70 is a conventional beam detector, which is compatible with the Protec 3000 range. The 3000/FIREBEAM70 Reflective Optical Beam Smoke Detector includes a motorised head unit containing an infrared transmitter and receiver, a ground-level controller and prism reflector.

The unit uses a 24V infrared transmitter to fire an infrared beam to a prism reflector, the returned beam is analysed for smoke contamination and registers a fire condition at a preprogrammed level.

The beam head incorporates microprocessor-controlled motors that intelligently maintain alignment with the reflector. When commissioned the head accurately aligns itself. In operation, the motorised head will re-align should there be building movement, a problem with new build settlement or environmental change. The unit's unique ability to self-align means that high-level re-adjustment is no longer required; saving time, disruption and cost, all whilst delivering outstanding reliability that reduces troublesome false alarms.

The supplied controller unit is used to make operational adjustments. The uncomplicated menu system, presented on the controller's LCD screen, helps simplify maintenance. All adjustments can be made at ground level, including a test procedure and full diagnostics.

The standard unit covers a range of 7 to 70 metres. To increase the beam's range, additional reflectors can be added. Two kits are available; FIREBEAM70/140KIT for a range of 70 to 140 metres, and FIREBEAM140/160KIT for a range of 140 to 160 metres.

Benefiting from IP65 rated enclosures, on both the motorised head and the controller unit, the beam detector is suitable for hostile environments such as the wash down areas in food processing halls.

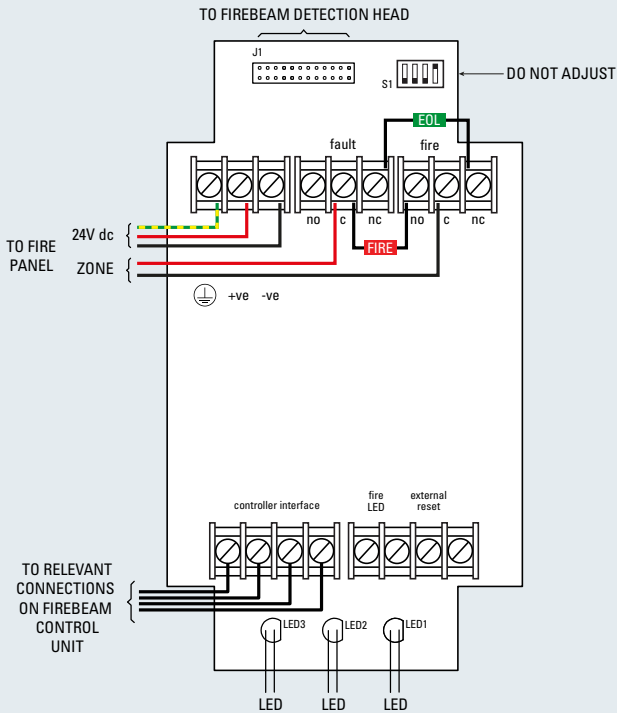
Addressable Option

The beam can be converted to a loop powered addressable device, by connecting it to the Protec 6000 Beam Interface Unit (6000/BEAM/IF). See MED2334 for more information.

Technical Specification



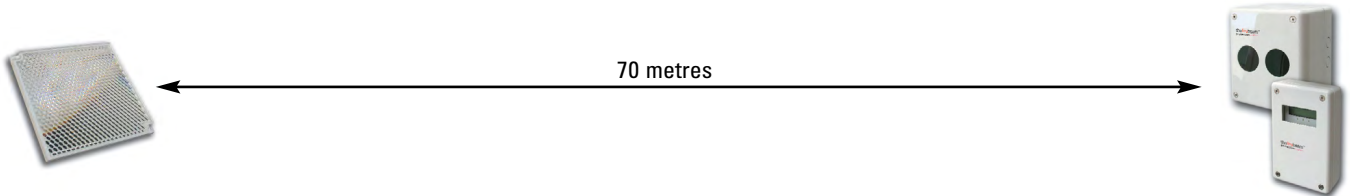
Dimensions (mm)



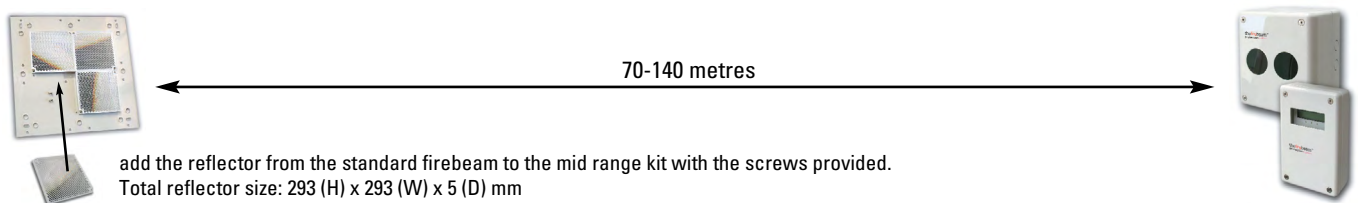
Technical Specification

Construction	Housing: white high heat ABS UL94 HB
Ingress Protection	IP65
Environment	-10°C to 55°C (10 to 95% R.H. non condensing)
Weight	Approx: Head 1.1kg / Controller 0.55kg
Time to Fault	Adjustable between 2s to 60s
Time to Fire	Adjustable between 2s to 30s
Sensitivity	Fully adjustable between 25% to 50%
Supply Voltage	10.2V dc to 30V dc +25% -15%
Quiescent Current	3.5mA
Alarm Current	3.5mA
Aligning Current	3.5mA
Fault/Fire Relay Contact Rating	2A @ 30V dc
Relevant Standard	EN54 Part 12

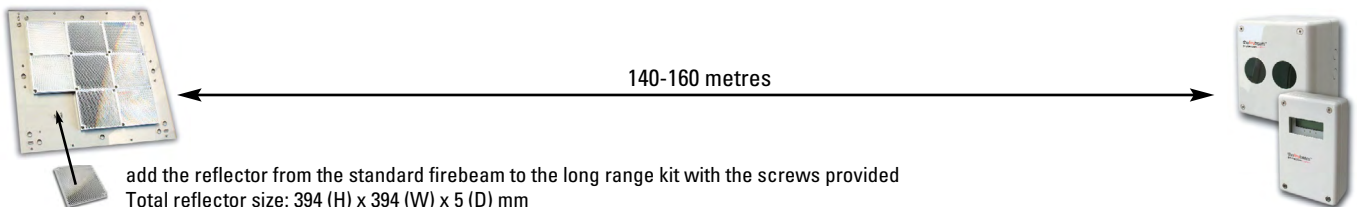
70 metres - The standard 3000/FIREBEAM70 - The standard firebeam comes boxed with the head unit, low level controller, one reflector, 3mm allen key, test filter and quick start installation guide. This should be used for distances from 7 to 70 metres.



70 - 140 metres - The standard 3000/FIREBEAM/70 + mid range 3000/FIREBEAM70/140 kit - For distances of 70 to 140 metres you will need to use the standard firebeam and a mid range extension kit (the mid range kit comes with a backing plate and 3 extra reflectors, you will need to add the reflector from the standard kit to the mid range kit with the screws provided)



140 - 160 metres - The standard 3000/FIREBEAM70 + 3000/FIREBEAM140/160 kit - For distances of 140 to 160 metres you will need to use the standard firebeam and a long range extension kit (the long range kit comes with a backing plate and 8 extra reflectors, you will need to add the reflector from the standard kit to the long range kit with the screws provided)



Company Policy is one of continuous improvement, we reserve the right to change specification without prior notice

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